

absolute magnetic heading, and global positioning information, may also be readily displayed in a similar manner.

Thus, located within the camera module 1 is an image capture device or camera 2, and camera compass module 3. The camera compass module 3 is comprised of an electronic compass 4, microcontroller 5, power supply 6, and optional temperature sensor 7 and/or pressure sensor 82. Located within the display module 8 is a video display 9, display compass module 10, power source 11, and optional GPS 83. The display compass module 10 comprises a similar electronic compass 12, microcontroller 13, and power supply 14 as utilized in the camera compass module 3, but also contains on-screen-display (OSD) electronics 15, and mode switches 16 and 17.

Switches 16 and 17 are used to select various operating modes. Switch 16 selects display modes such as RELATIVE, ABSOLUTE, TEMPERATURE ONLY, and OFF. Switch 17 is used to select between Fahrenheit and Celsius temperature display. These display module components are located within a housing separate from that of camera module 1, but are connected to camera module 1 by means of a cable 18 which contains conductors 19 and 20 for supplying power to the camera module 1 from the display module 8, as well as conductors 21 and 22 for transmitting the video and data signals from the camera module 1 to the display module 8.

Fig. 2 is an electrical schematic of a preferred embodiment of the camera compass module 3 with an optional temperature sensor 7. As shown therein, power supply 6 is a typical 5-volt regulator deriving supply voltage for the camera compass module circuitry from the 12V system power source 11. As shown in Figs. 2 and 3A, cable 18 is connected between output interface 23 of camera module 1 and input interface 24 of display module 8. Thus, power from source 11 is transmitted through cable 18 and along line 19a to power supply 6.

Page 12, please delete the second full paragraph starting on line 14 in its entirety, and substitute the following therefor:

a7 The display is updated rapidly, several times per second, so that as the camera or display is moved, the indicators move smoothly to indicate the viewing direction changes. As stated previously, it will be appreciated that, in a similar manner, other additional information relative to camera operation, such as camera depth, global positioning information, and absolute magnetic heading data, may also be displayed as optional features or enhancements. For instance, camera depth may be determined by incorporating a small pressure sensor 82 within the camera housing 1 to measure water pressure at camera level. Depth, which can be easily converted from water pressure, may then be calculated and displayed in the same video screen 9 in a similar manner.

IN THE CLAIMS

Please add the following new claims:

23.(New) The remote viewing apparatus of claim 20, including a temperature sensor and a pressure sensor carried by said image capture device for determining and displaying the temperature and depth of said image capture device on said image display device.

a3 24.(New) The remote viewing apparatus of claim 10, wherein the temperature at said image capture device is displayed on said image display device.

25.(New) The remote viewing apparatus of claim 10, wherein the depth of said image capture device is displayed on said image display device.